Wireless Presentation Gateway

User Manual

WPG-100

Version: 1.00

Date: August 28, 2006

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance. (example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.
This device complies with Part 15 of the FCC Rules. Operation is subject to the Following two conditions: (1) This device may not cause harmful interference, and (2) this Device must accept any interference received, including interference that may cause undesired operation.

Federal Communication Commission (FCC) Radiation Exposure

Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to

avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/CE OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE)

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8,2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

WEEE regulation

To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User's Manual for PLANET Wireless Presentation Gateway

Model: WPG-100

Rev: 1.0 (September. 2006)

Part No. EM-WPG100

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1. Overview

WPG-100 is a easy installation, convenient operation and user friendly projecting device. It turns your current Projector into a high-end Projector. With the WPG-100, your Projector becomes a wired, wireless device / resource that PCs / Notebooks will be easier to project screen to the attached Projector.

- Plug & Play

WPG-100 is a plug-and-play device which is easy to install and connect with. Any Notebooks/PCs with built-in Centrino or Wi-Fi card can easily download driver and connect to WPG-100.

- Flexibility

WPG-100 is compatible to all kinds of projectors, using wire-line or wireless connection, to display presentations. Instantly project your screen to the projector with just one mouse click. Nor more cable swapping hassles.

- Performance

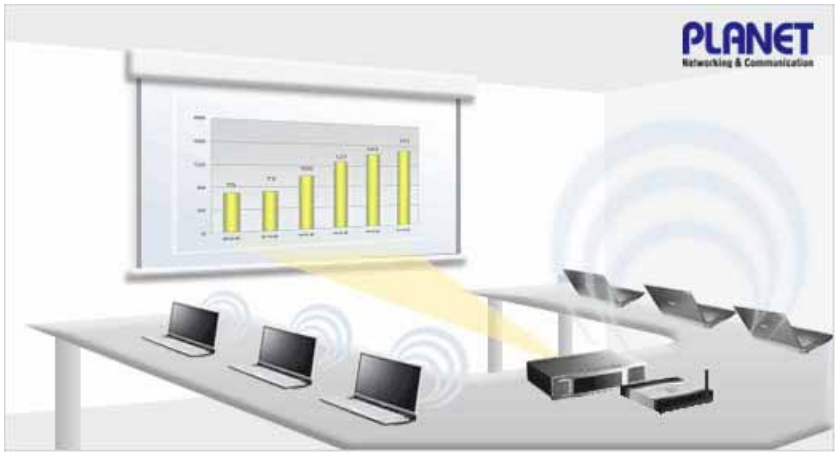
WPG-100 has the ability to deliver real time animation screens for up to 1024x768 resolutions in 24-bit color depth. It also provides friendly web-based administrating UI for easy configuration and wireless security setups.

- Security

Support Login code to protect other users from accessing presentation contents. During presentation, screen images can also be protected by WEP 64/128 encryption.

- Conference control

Supporting multi-users to switch presentation, any member at the conference can easily login to presentation server and switch the computer's screen to Projector without moving the computer to Projector.



- Different operating mode to fulfill both Wireless and Ethernet environment

- One button operation

User-friendly graphic interface to allow users to use it without any training.

- Intelligent searching function

After perform WPG-100 utility, the utility will automatically search all the WPG-100 which are available and within the wireless LAN cover range. Users don't need to do any other setting, without worrying about the operation procedures.

➢ Features

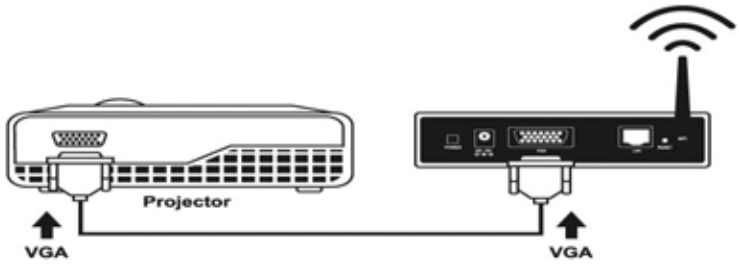
- Wireless presentation … no more cable swapping.
- Compatible to all projectors with standard VGA connectors.
- One-Click to switch presenters' displays.
- Real time display for PowerPoint presentations, images and applications.
- Supports display resolutions up to 1024x768 with 24-bit color.
- No installation CD required, software is directly downloaded from the device.
- Provide session security login and wireless WEP key to protect presentation contents.
- Conference control function is provided for the host to moderate a meeting.
- Provide friendly web-based user interface for easy configuration.
- Support static-IP and DHCP server.

➢ Packet Content

- WPG-100
- CD Disk (User's Guide included)
- 5V DC Power adapter
- Quick Installation Guide
- Wall mount kit

2. Quick Start

1) Connect projector VGA cable to WPG-100 box VGA connector and turn on projector power.



2) Turn on WPG-100.

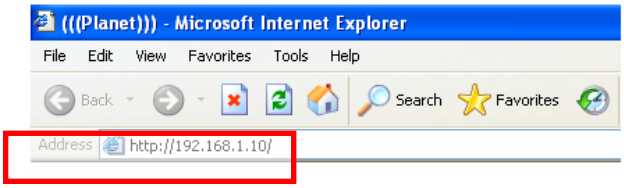
♦ When Projector shows the default menu on the screen as below, it indicates the WPG-100 is ready now.

LOGIN CODE: 1234
PLANET
Networking & Communication
Quick Guide
1. Make sure your WLAN is enabled, and connect to the WPG-100 AP.
2. Open your browser, or enter the IP address (refer to below server IP address)
3. Click on "Download", and execute the installation program.
4. Make sure your personal firewall allows WPG-100 software to pass through!
5. Click the "Play" button, and enter the LOGIN CODE to start projection!
ESSID: AirPresenter
Server IP: 192.168.1.10
Channel: 4
Network Type: Independent mode
WEP: Disable
Device Name: WPG-100
Resolution: 1024x768
WPG-100
Wireless Presentation Gataway

3) Make sure your PC LAN port or WLAN interface is enabled already, and connect your PC with WPG-100 (wireless default SSID is WPG-100).

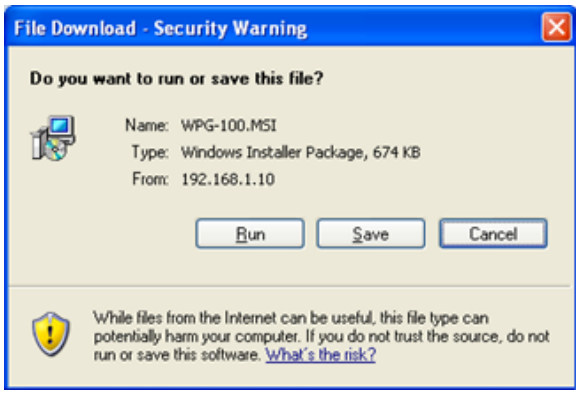
4) Open your browser and enter the WPG-100 IP address to get in WPG-100 web home page.

♦ The default IP address of WPG-100 is **192.168.1.10**. If you have modified the IP address, you can refer to the IP address shown on the left-down corner of projector screen.



5) Click on "**Download**".

6) You will see a file download dialog box appear, press "**Run**" to execute the installation program.


File Download - Security Warning
Do you want to run or save this file?
Name: WPG-100.MSI
Type: Windows Installer Package, 674 KB
From: 192.168.1.10
Run
Save
Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

7) After install the program, WPG-100 shortcut

will come out on the desktop.

8) If there is any firewall, please make sure your personal firewall has allow WPG-100 software to pass through.

9) Enter the **LOGIN CODE** and press "**OK**".

♦ You can see the login code on the projector screen

10) Click the "**Play**" button to start projection!

3. Client Utility

3.1 Starting Program

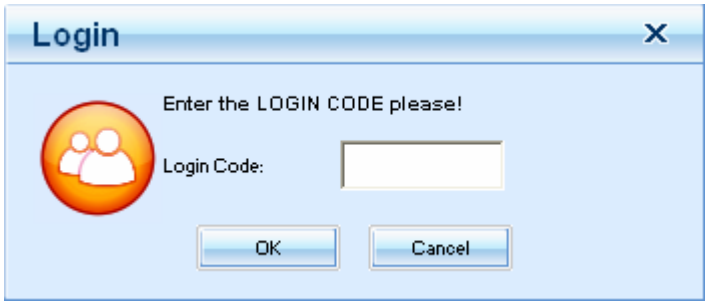
After you download WPG-100 Windows program via web page successfully, then follow below steps to start.

1) Click WPG-100 icon to execute the program.

2) Program start to search for WPG-100 box automatically,
3) If WPG-100 box founded then "**Login Code**" dialog box will be pop up on the PC screen.
4) If not, will enter to disconnected state and "**Reconnect"** button shown for you to try again.

- **Searching for WPG-100 box**

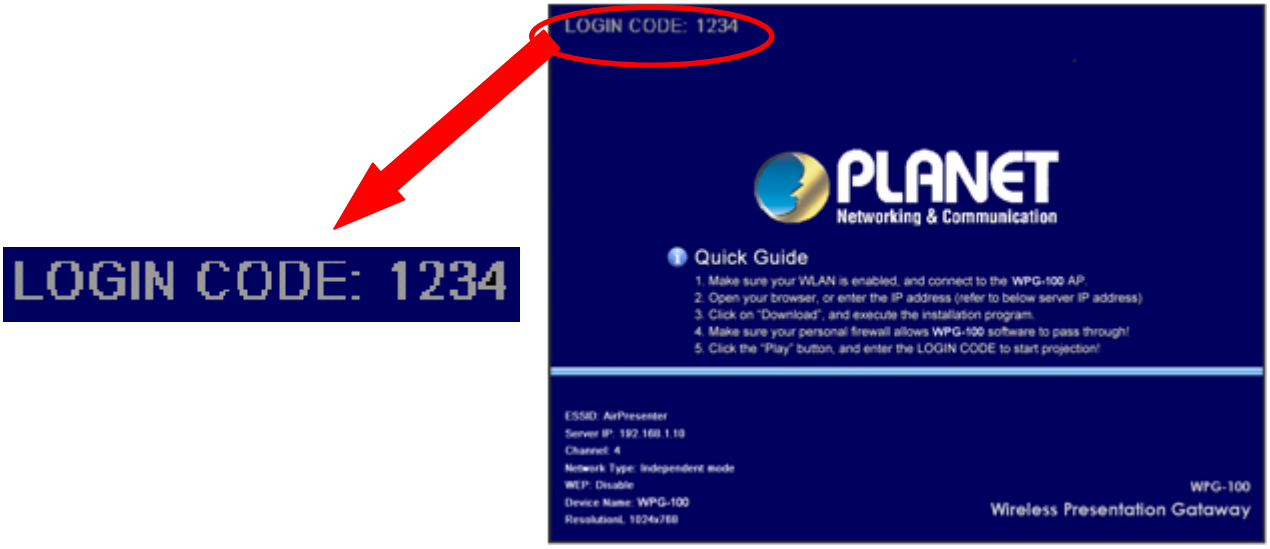
- **WPG-100 box is founded and enter login code to start.**



- **Failed to find WPG-100 box**

3.2 Login

1) After “Login Code” dialog box shown, enter login code to start presentation.
2) You can see the login code shown on the projector screen.


LOGIN CODE: 1234
LOGIN CODE: 1234
PLANET
Networking & Communication
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1. Make sure your WLAN is enabled, and connect to the WPG-100 AP.
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3. Click on "Download", and execute the installation program.
4. Make sure your personal firewall allows WPG-100 software to pass through!
5. Click the "Play" button, and enter the LOGIN CODE to start projection!
WPG-100
Wireless Presentation Gateway

3.3 Buttons Description

1) After login successfully, operating deck comes out.

2) Click following buttons to Start or Stop presentation.

Start projecting

Stop projecting

Refresh projecting screen

Server Login Code

Function menu

While projecting in progress, this icon is blinking

Minimize the program

Exit the program

3.4 Start Presentation

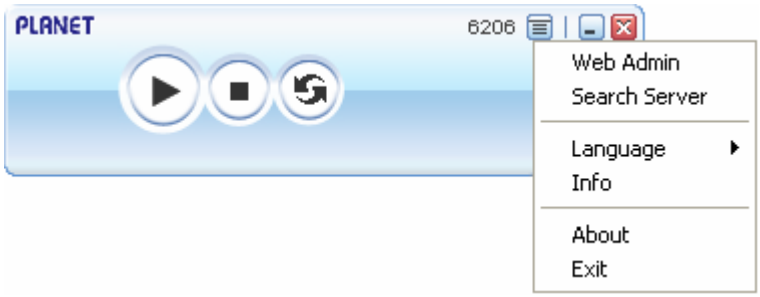
Click to start wireless presentation.

3.5 Stop Presentation

Click to stop wireless presentation.

3.6 Open Admin Web Page

Click to open function menu and select “**Web Admin**” management web page. The web page detailed functions will be described on next chapter.



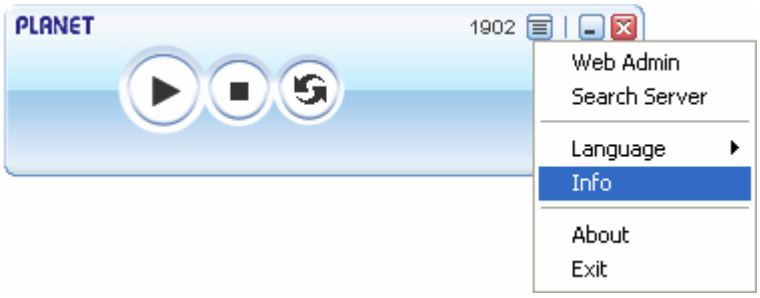
3.7 Searching Server

Click "**Search Server**" to search for WPG-100 box.

If there is not any WPG-100 available, the utility will show the result below:

3.8 System Information

Click "**Info**" to show system information. It includes product model number, IP address and other information.



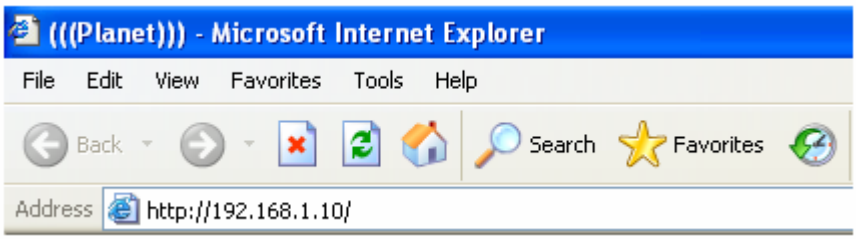
3.9 Exit Program

Click to terminate the program.

4. Web Management

4.1 Home Page

1. Default IP address of WPG-100 is 192.168.1.10. Please set your PC's IP address to 192.168.1.x. Subnet mask to 255.255.255.0.
2. Make sure your PC connect to WPG-100 via wired or wireless interface (SSID: WPG-100) successfully.
3. Enter WPG-100 IP address to the address filed of browser as below.

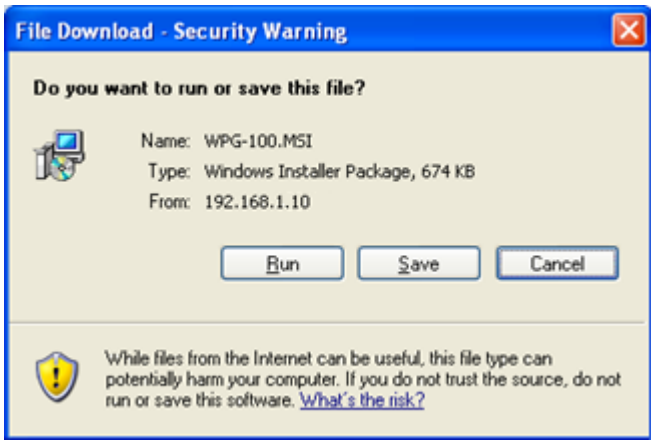


4. Than you will see the WPG-100 home screen.

4.2 Download Software

Select "**Download software**" function.

1. Press "**Login**" button to download Utility, the default password is blank
2. You can save file first then execute later or execute this utility directly.
3. Follow Installation Wizard instructions to proceed till the installation process complete.
4. If pop up "**Windows Security Alert**" because Windows firewall block this program. You just press "**Unblock**" button to continue installation.
5. Once installation complete, a utility shortcut come out on the screen.


File Download - Security Warning
Do you want to run or save this file?
Name: WPG-100.MSI
Type: Windows Installer Package, 674 KB
From: 192.168.1.10
Run
Save
Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

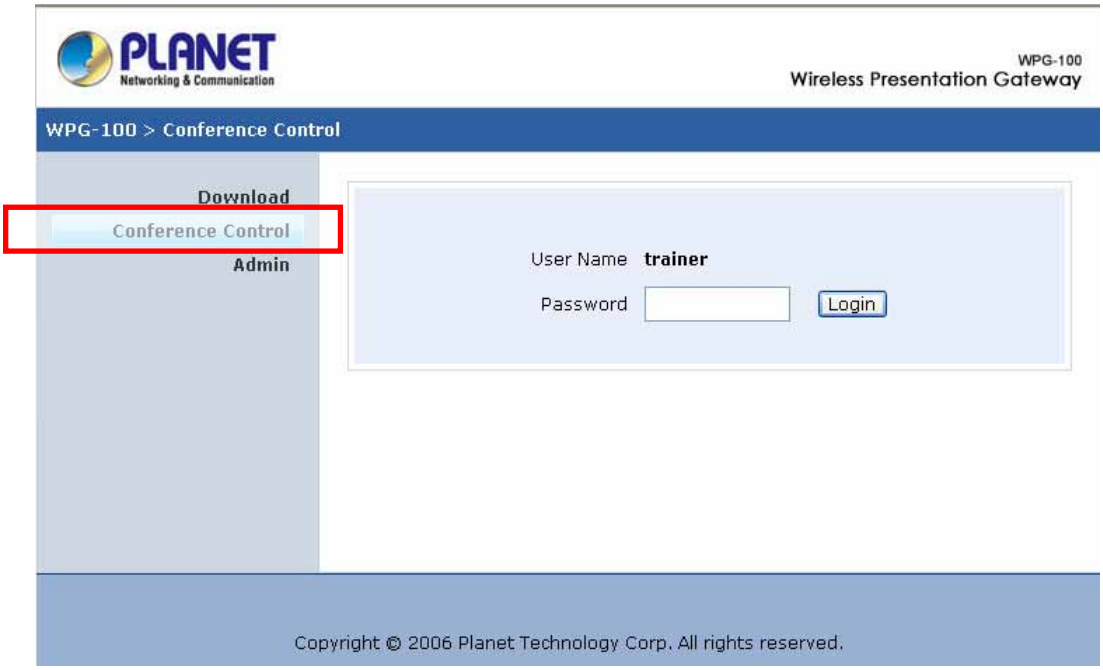
4.3 Conference Control

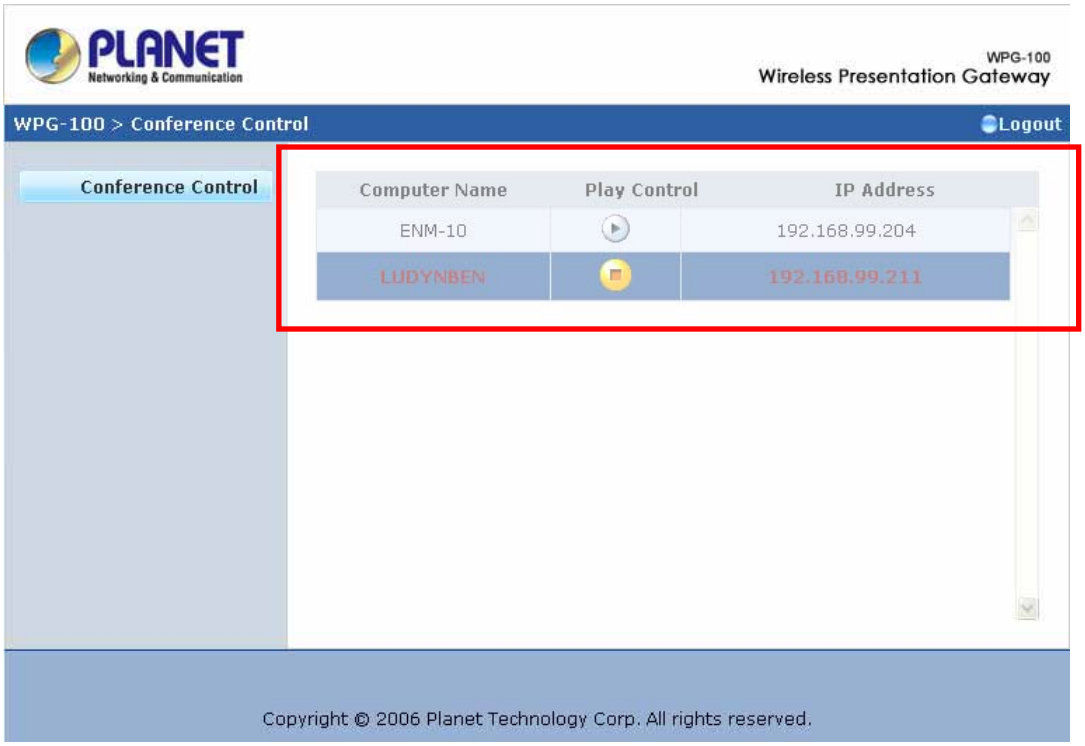
1. This function allow you to host a meeting smoothly without projector cable swapping and each participants can show their presentation easily.
2. Select "**Conference Control**" function.
3. Enter password, the default value is "trainer", and then press [Login].
4. After login, you can see a User List on the screen which indicates all of users connected to WPG-100 box.
5. There are three columns, "**Computer Name**", "**Play Control**" and "**IP**

Address".

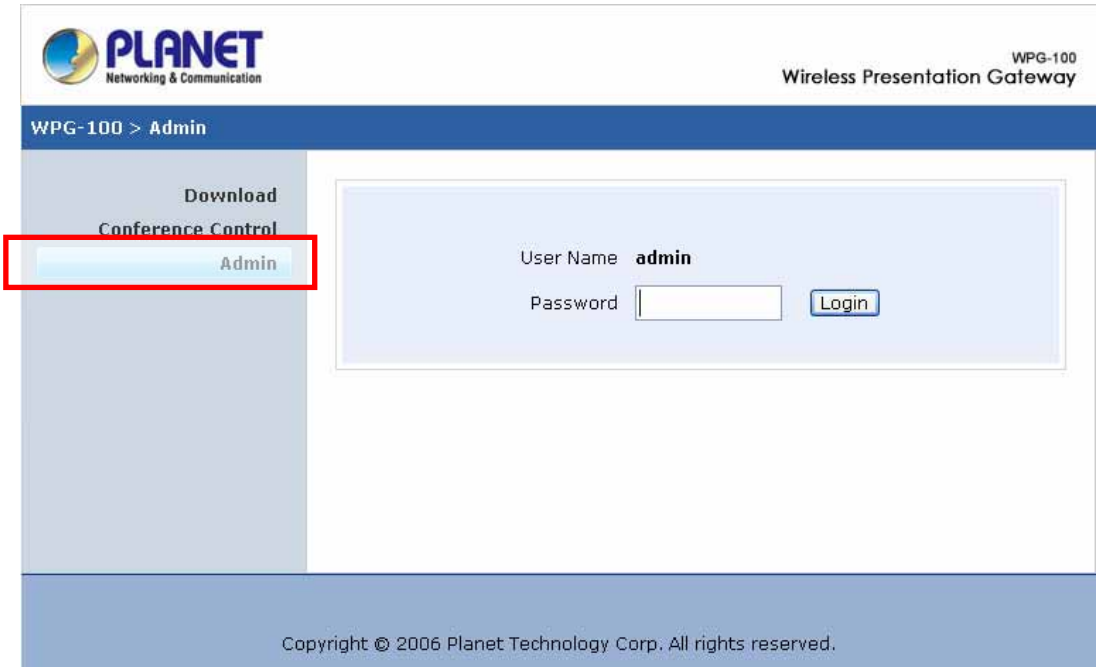
6. You can press "**Play Control**" button to control who is next presenter by "**Play**" button and "**Stop**" button.
7.

- **Computer Name:** The name of PC connected to WPG-100 box.
- **Play control**：Show current user's projecting status.
  : Start projecting
  : Stop projecting.
- **IP address**：The IP address of PC



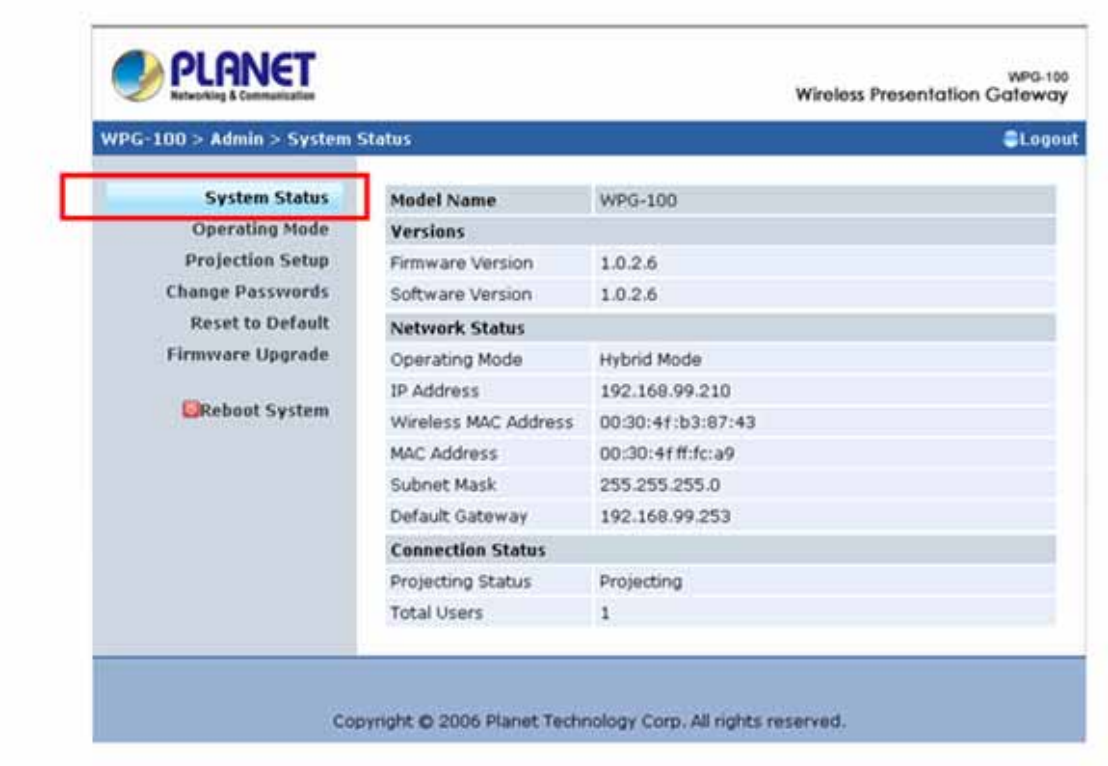


4.4 Login Web Admin



1. Click [**Admin]** and then enter password to login web page.
2. The password default value is “admin”.

4.5 System Status



*** Click **[System Status],** shows current system status.

Model Name: Product model name

Versions:

1. **Firmware version no.**: Product firmware version number.
2. **Software version no.**: Windows client utility version number.

Network Status:

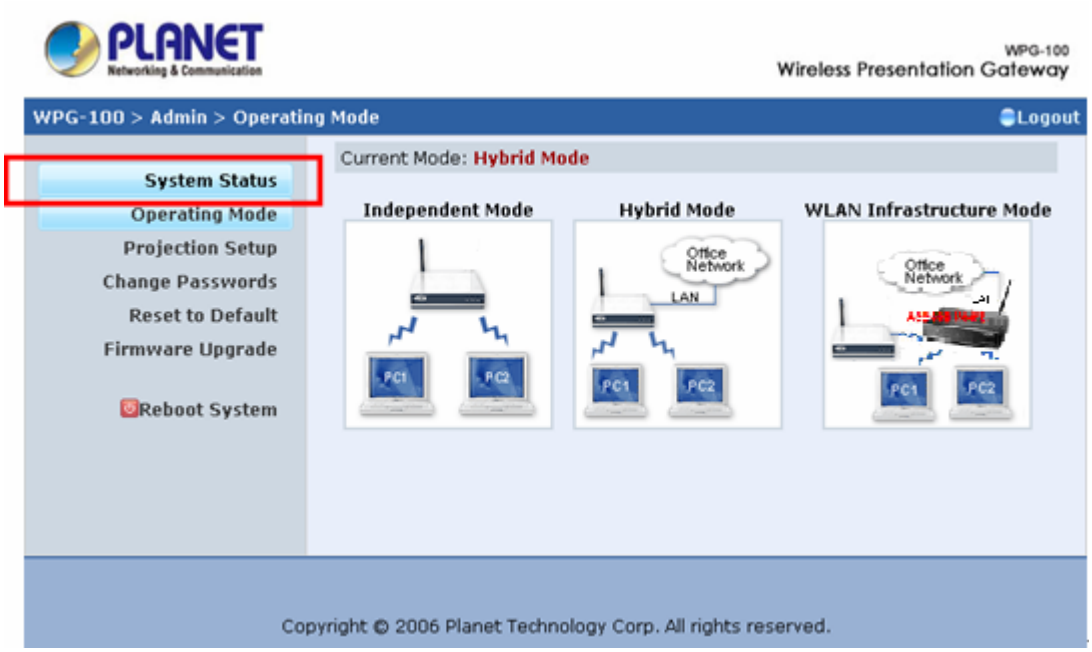
1. **Operating Mode:** current operating mode
2. **IP address**：IP address of WPG-100
3. **MAC address.**
4. **Subnet Mask.**
5. **Default Gateway**

Connection Status:

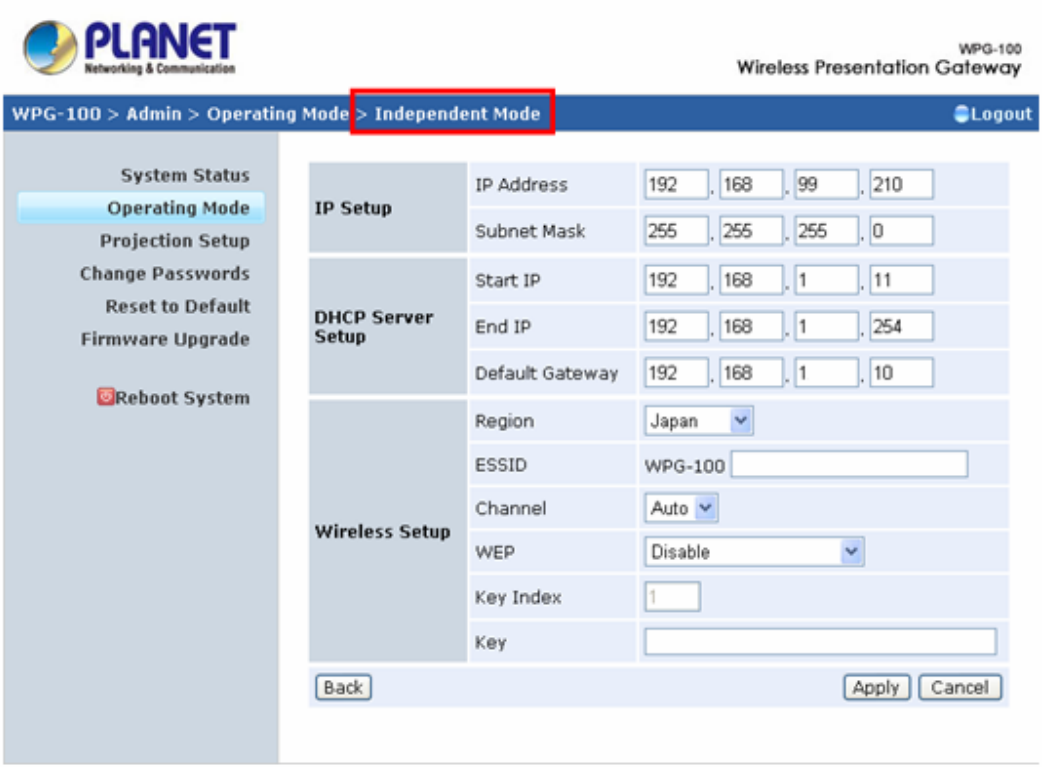
1. **Projecting status:** which is “Waiting for projecting” or “Projecting”
2. **Total Users:** how many users login to WPG-100 now.

4.6 Operating Mode

There are three kinds of operating mode, which one is suitable for you that depend on your office network configurations.



1. [Independent Mode]



*** Click **[Independent Mode]** button to select this mode.

- This mode is the simplest and easiest way to get presentation up and running.
- Your client PC can only connect to WPG-100 through WLAN, and your PC's IP address get from WPG-100 automatically.
- In this mode, WPG-100 provides DHCP server capability.
- You can't connect to office network through WPG-100's LAN port because the LAN port is disabled.
- This operating mode is suitable for a more secured environment where do not allow users to access the network resources through WPG-100.

< IP Setup>

- IP Address: The default value is 192.168.1.10.
- Subnet Mask: The default value is 255.255.255.0

<DHCP Server Setup>

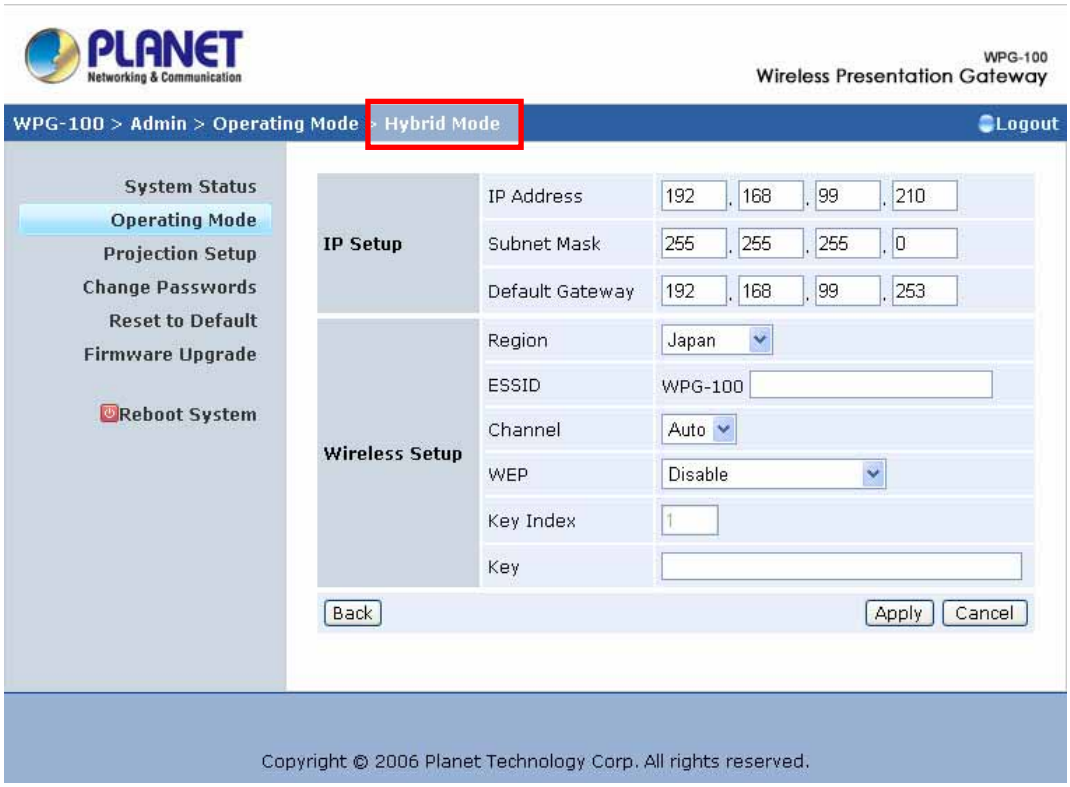
- Start IP: The start IP address of DHCP Server.
- End IP: The end IP address of DHCP Server.
- Default Gateway: The default value is 192.168.1.10

< Wireless Setup>

- SSID: SSID string, max. length is 32 bytes.
- Channel: to set fixed channel or Auto. The “Auto” means after power on WPG-100, it will scan all of wireless channel and select clear one channel automatically.
- WEP: you can Disable WEP key or select one of 64bit or 128bit in ASCII or HEX string..
- Key: If WEP is enabled, you have to set key value according to WEP mode you selected.

<Apply >: press button to select this mode
<Cancel>: press button to abort action**.**
<Back>: Back to Operating mode main menu.

2. [Hybrid Mode]



*** Click **[Hybrid Mode]** button to select this mode.

- This mode allows you install WPG-100 to existing office network through LAN port so that internet access is possible.
- The IP of your PC is assigned through enterprise's DHCP server over WPG-100's LAN port.
- You have to assign WPG-100 IP address manually. Make sure both WPG-100 and client PC are on the same subnet.
- In this mode, WPG-100 doesn't provide DHCP client and DHCP server capability.
- This operating mode in suitable for enterprise that allows the attendee in the meeting can still access the resources such as Internet Access during the presentation.

< IP Setup>

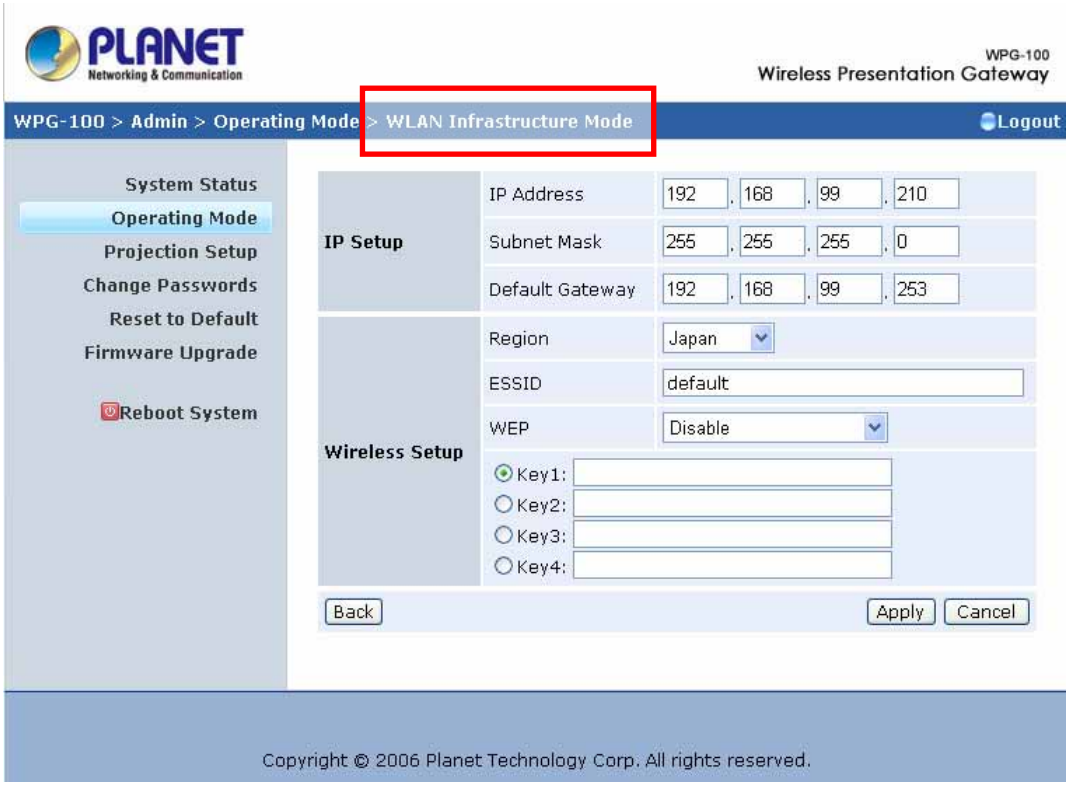
- **IP Address:** The default value is **192.168.1.10.**
- **Subnet Mask:** The default value is **255.255.255.0**
- **Default Gateway:** The default value is **192.168.1.10**

< Wireless Setup>

- **SSID**: This is SSID of WPG-100. The string length is 32 bytes.
- **Channel**: to set fixed channel or Auto. The "Auto" means after power on WPG-100, it will scan all of wireless channel and select clear one channel automatically.
- **WEP:** you can Disable WEP key or select one of 64bit or 128bit in ASCII or HEX string..
- **Key**: If WEP is enabled, you have to set key value according to WEP mode you selected.

<Apply >: press button to select this mode
<Cancel> : press button to abort action**.**
<Back>: Back to Operating mode main menu

3. [WLAN Infrastructure Mode]



*** Click **[WLAN Infrastructure Mode]** button to select this mode.

- This mode is purely “wireless”, WPG-100 act as a WLAN client station to connect your office Access Point/Router to accommodate to existing office network. So that Internet browsing is possible.
- Connect your PC to office Access Point/Router.
- You have to assign WPG-100 IP address manually. Make sure both WPG-100 and client PC are on the same subnet.
- However, in this mode the presentation performance maybe interrupted by other PCs access WLAN Router/Access Point access, such as Internet browsing.
- When WPG-100 failed to connect to Access Point/Router, a “network

error" screen shown on the screen. You can configure WPG-100's setting again through LAN port of WPG-100.

< IP Setup>

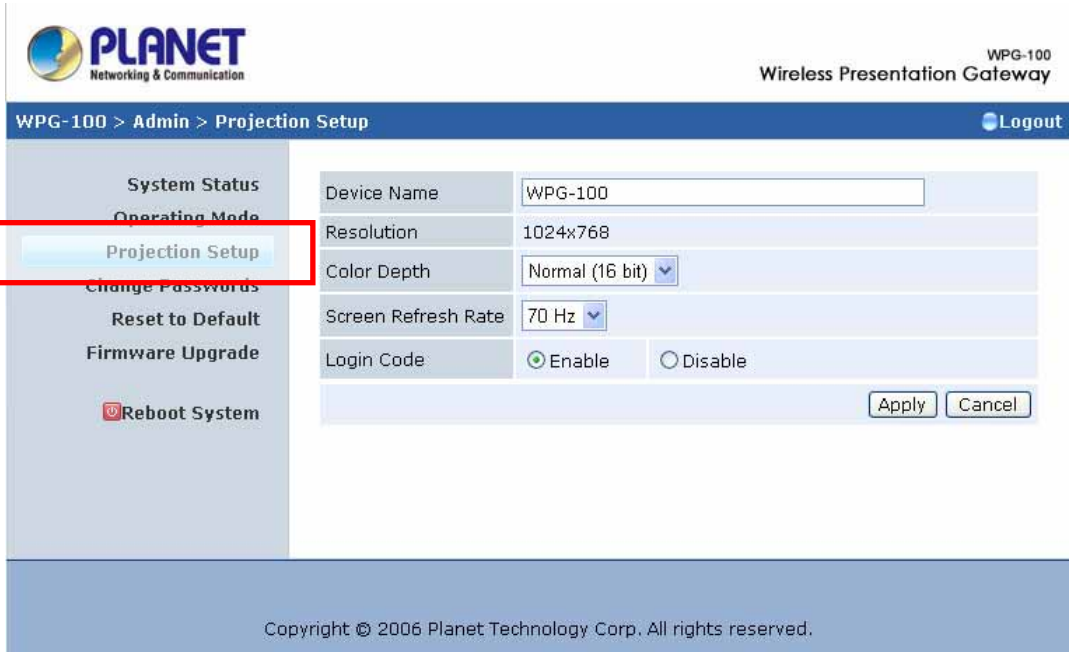
- **IP Address**: The default value is **192.168.1.10.**
- **Subnet Mask:** The default value is **255.255.255.0**
- **Default Gateway:** The default value is **192.168.1.10**

< Wireless Setup>

- **SSID:** This is SSID of office WLAN Router/Access Point that WPG-100 want to connect to. The string length is 32 bytes.
- **Channel**: to set fixed channel or Auto. The "Auto" means after power on WPG-100, it will scan all of wireless channel and select clear one channel automatically.
- **WEP:** you can Disable WEP key or select 64bit or 128bit in ASCII or HEX string type.
- **Key**: If WEP is enabled, you have to set WEP Key value according to WEP mode you selected. There are four Key Index for you to select.

<Apply >: press button to select this mode
<Cancel> : press button to abort action**.**
<Back>: Back to Operating mode main menu

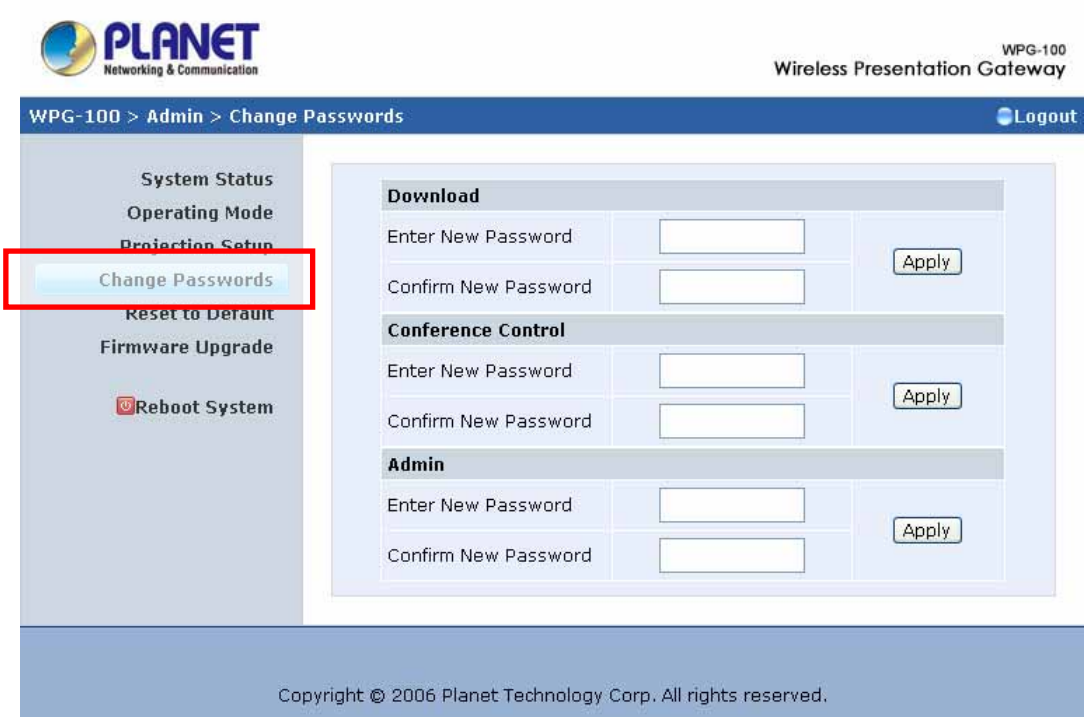
4.7 Projection Setup



*** Click **[Projection Setup]** button

- **<Device Name>**: The device name of WPG-100.
- **<Color Depth>**: provide WPG-100 output with 16bit or 32 bit color depth. It depends on your PC settings.
- **<Screen Refresh Rate>**: This is VGA output refresh rate, provides 60 Hz and 70Hz to suit for different kinds of projectors..
- **<Login Code>:** To select <Enable> or <Disable>. If you select <Disable> then WPG-100 will not ask you for entering login code before doing presentation.
- **<Apply>**：Confirmation and Save modifications
- **<Cancel>:** Cancel all the modifications

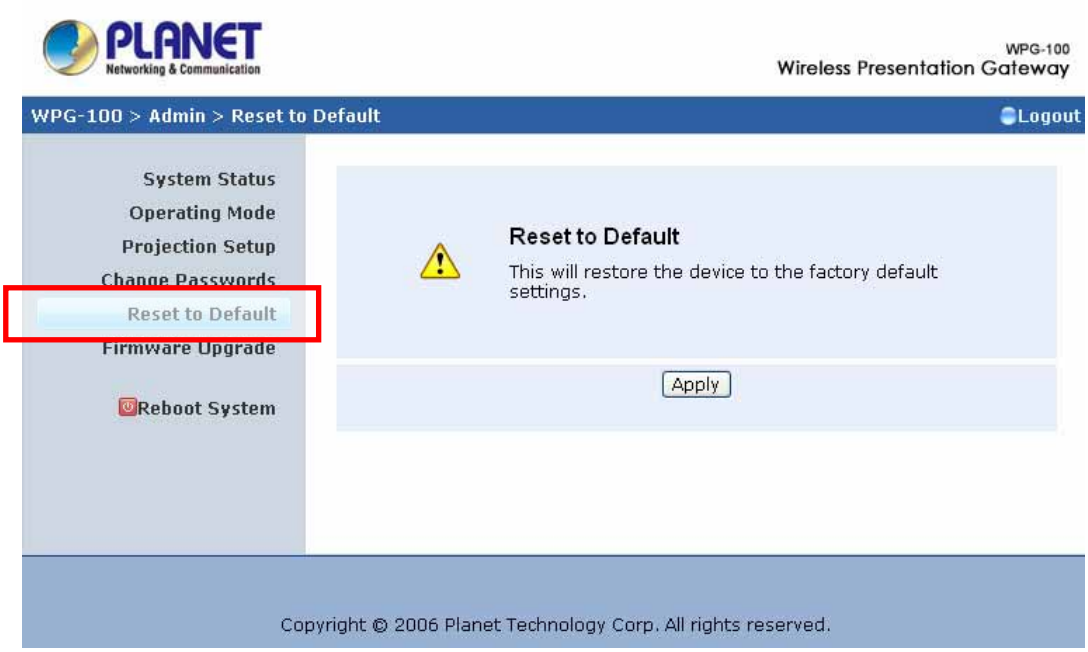
4.8 Change Passwords



*** Click **[Change Password]** button, to change password value.

- **<Enter New Password>:** enter new password you want to change for each category.
- **<Confirm New Password>**: double confirm new password.
- **<Apply>:** Confirmation and Save modifications.

4.9 Reset to Default

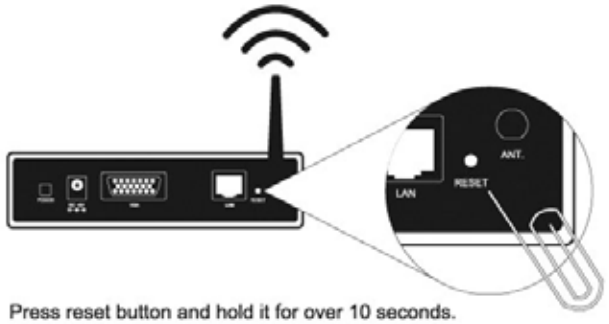


*** Click **[Reset to Default]** button to restore factory default settings.

<Apply> : Confirmation and action.

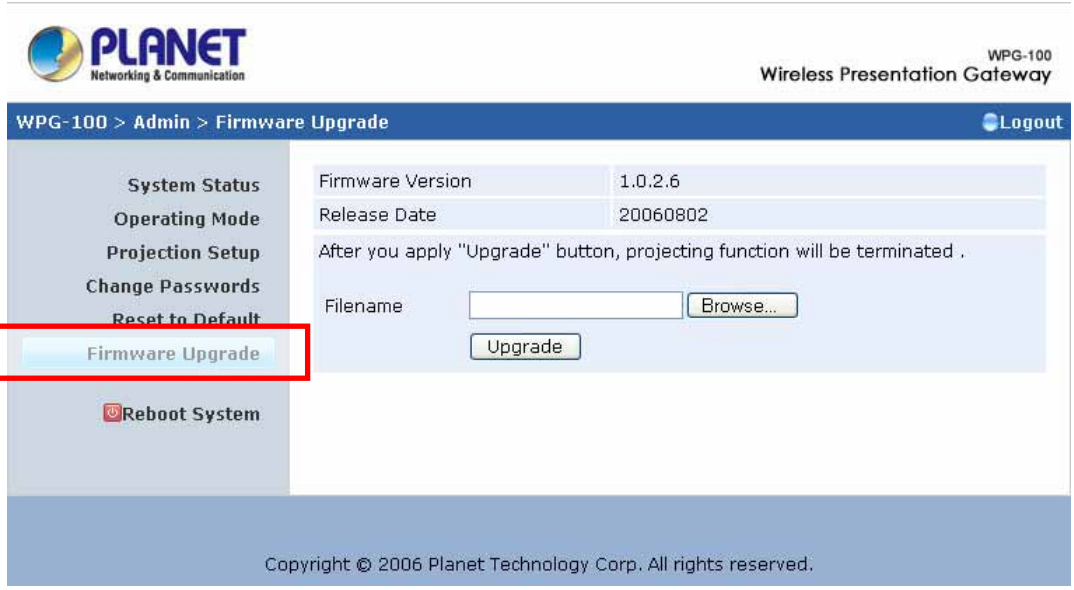
***** Another way to restore Factory Default Settings, Follow procedures below.**

1. Power off WPG-100.
2. On the rear panel, press **[Reset]** button and **Hold.**
3. Turn on WPG-100 box.
4. Wait for over 10 seconds and relief [Reset] button.
5. It will take effect to restore factory default settings.



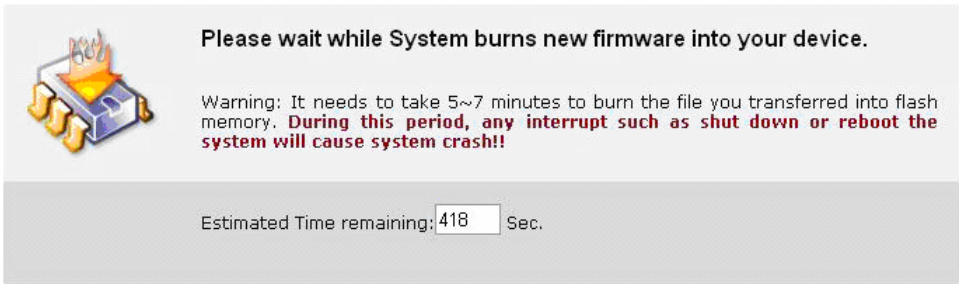
Press reset button and hold it for over 10 seconds.

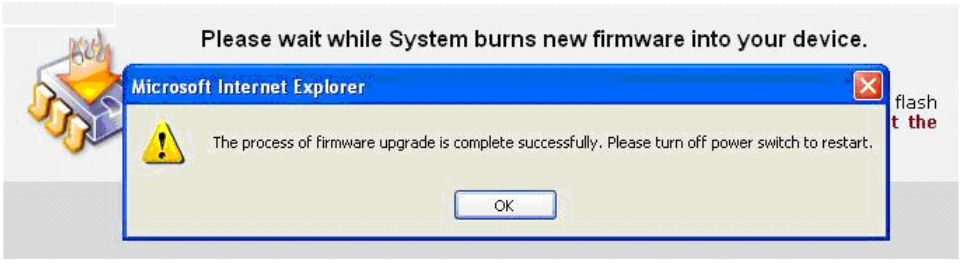
4.10 Firmware Upgrade



*** Click **[Firmware Upgrade]** button to upgrade firmware.

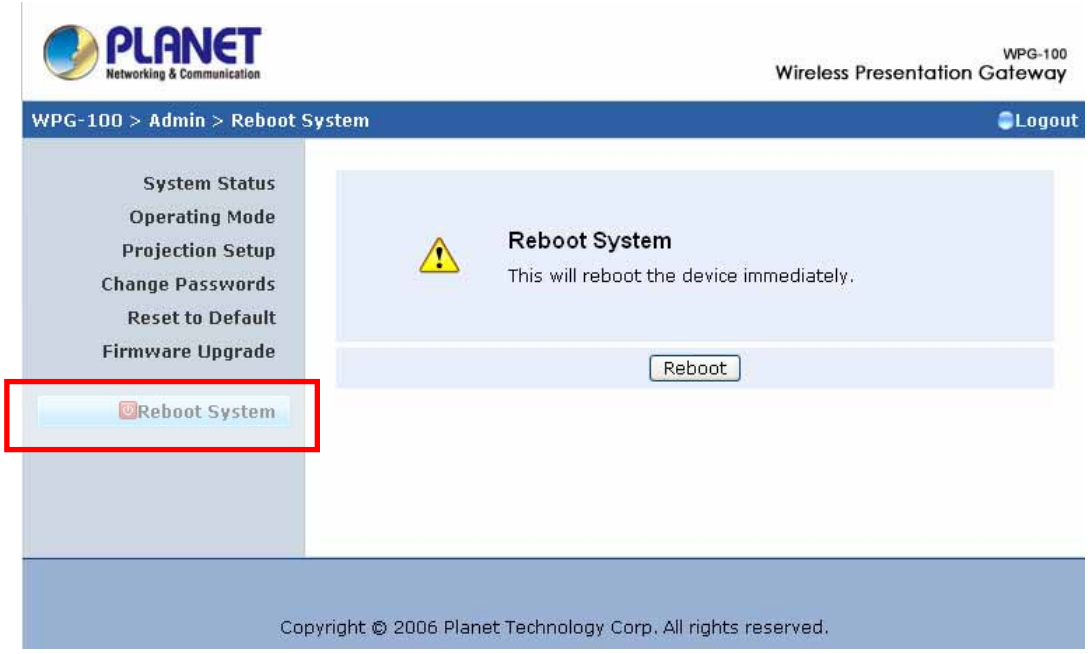
1. Firstly, you have to get latest firmware image file from your vendor.
2. Click **<Browse>** to specify file name you want to upgrade.
3. Click **<Upgrade>** to start.
4. A warning message shown and count down counter on the screen.
5. After a few minutes, a complete message shown on the screen.
6. Restart WPG-100 box to take effect.


Please wait while System burns new firmware into your device.
Warning: It needs to take 5~7 minutes to burn the file you transferred into flash memory. During this period, any interrupt such as shut down or reboot the system will cause system crash!!
Estimated Time remaining: 418 Sec.


Please wait while System burns new firmware into your device.
Microsoft Internet Explorer
The process of firmware upgrade is complete successfully. Please turn off power switch to restart.
OK

Warning: Don't power off WPG-100 while firmware upgrade in progress, otherwise will cause your Box doesn't work and have to return device to your vendor for fixing.

4.11 Reboot System



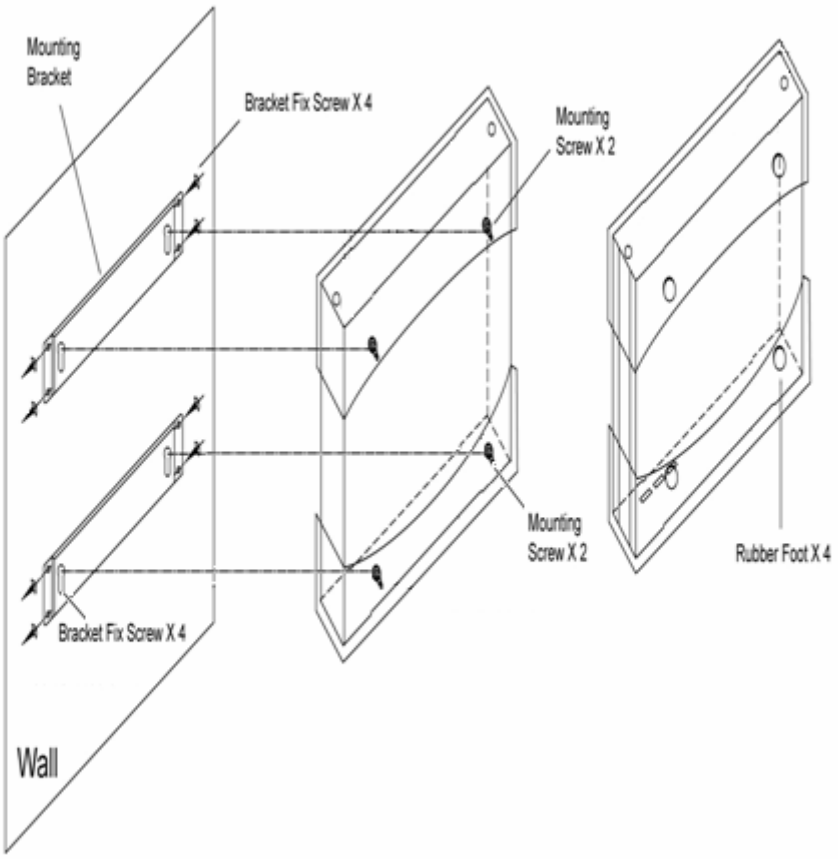
*** Click **[Reboot System]** button, to restart system

- **<Reboot>**: reboot system automatically.

4.12 Logout

*** Click **[Logout]** button, to back Web home page.

Wall Mount Instructions



1. Remove the rubber foots at back plane side.
2. Screw mounting screws on unit.
3. Use screws to fix mount bracket on the wall.
4. Hang up unit on mounting bracket.

Specification

Standards	IEEE 802.11b/g IEEE 802.3/802.3u
Channels	11 (US, Canada), 13 (Europe) and 14 (Japan)
Data Rate	Wireless: up to 54Mbps LAN: 10/100 Mbps with auto MDI/MDIX
Operating Network Type	Access Point mode Ad-Hoc mode Infrastructure mode
Management	Web Configuration
Security	IEEE standard 64/128 bit WEP
Antenna	1 x Detachable antenna with SMA connector
Transmission Power	14dBm typical
Receiving Sensitivity	-65dBm @ 54Mbps -80dBm @11Mbps at 10-5 BER
Connect Distance	Up to 300 feet/100 meters, depends on environment
Resolution	SVGA (800x600), XGA (1024x768) 24bit color depth
Supported OS	Windows 2000, XP and Server 2003
Power	5V DC, 2.5A
Interfaces	15-pin VGA RJ-45 Power switch DC Jack Reset button
LEDs	Power, WLAN, LAN
Dimension	138mm(W) x 113mm(D) x 37mm(H)
Weight	350g
Environmental Conditions	Operating temperature: 0~40℃ Storage temperature: -10℃~60℃ Operating humidity: ≦90% Storage humidity: ≦80%
Certification	FCC, CE

Troubleshooting

Q1. Can I use older client utility working with new server box ?

A: : After you did firmware upgrade complete, you should download Client utility from server box to replace older one, otherwise it might cause working improperly because version compatibility issue.

Q2. Why my PC and server box connection is established but client utility can't find server box ?

A: (1) Check with your firewall utility if it blocked client utility, if so, add this program to your exception list and try again.

(2) Make sure client utility you are using now is downloaded from this server box.

Q3. How do I know firmware upgrade is completed?

A: (1) While you are doing firmware upgrade, remember DON"T TURN OFF server box, otherwise you have to send back to your vendor for fixing.

(2) While firmware upgrade in progress, the POWER LED will be "RED" color and LAN LED will be blinking, once upgrade complete then the POWER LED will turn into yellow color and LAN LED will be green color.